

Date	Location	IR Camera Video File Names (Time)	PID Data Times	PhoCheck Tiger	PhoCheck Tiger Select	Photo I.D.	Notes
9-Oct	Driving along Tidal Rd		15:56:45 - 16:10:00	x			Elevated PID data downwind from 80-series tanks on Tidal Rd, especially near Tanks 80-4 and 80-7 (pre-inspection surveillance).
10-Oct	Tank 80-22						Winds easterly, 3 m/s steady @ 14:00. PhoCheck data loggers off, no IR camera visible emissions were detected from Tank 80-22. Tank 80-22 was static, contained pygas, capacity 80,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 1979.
10-Oct	Tank 80-23						PhoCheck data loggers off, no IR camera visible emissions were detected from Tank 80-23. Tank 80-23 was filling, contained pygas, capacity 80,000 barrels, IFR with double wiper, constructed 1979.
10-Oct	Tank 80-24						PhoCheck data loggers off, no IR camera visible emissions were detected from Tank 80-24. Tank 80-24 contained xylene, capacity 80,000 barrels, IFR with double wiper, constructed 1979.
10-Oct	Tank 80-19						PhoCheck data loggers off, no IR camera visible emissions were detected from Tank 80-19. Tank 80-19 did not have rim or eyebrow vents, contained pygas, capacity 80,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 1979.
10-Oct	Tank 80-20	MOV_0423 Tank 80-20 (*15:41)					PhoCheck data loggers off, IR camera visible emissions were detected in HSM and auto from three vents on Tank 80-20 (py gas or pyrolysis gasoline), vapor pressure 5.8 psi @ 80F, tank capacity 80,000 barrels, IFR with mechanical shoe, secondary wiper, constructed 1979, external inspection 9/2012, internal inspection 8/2010.*IR camera was still set to Eastern time, corrected to Central time at 14:46.
10-Oct	Tank 80-21						PhoCheck data loggers off, no IR camera visible emissions were detected from Tank 80-21. Tank 80-21 was clean and gas free.
10-Oct	Tank 80-16						PhoCheck data loggers off, IR camera visible emissions were detected in HSM only from Tank 80-16 (three vents), no video recorded. Tank 80-16 contained toluene-nitration grade, capacity 80,000 barrels, IFR with double wiper, constructed 1979.
10-Oct	Tank 80-17						PhoCheck data loggers off, no IR camera visible emissions were detected from Tank 80-17. Tank 80-17 contained ethylene dichloride, did not have rim or eyebrow vents, capacity 80,000 barrels, IFR with double wiper, constructed 1979.
10-Oct	Tank 80-18						PhoCheck data loggers off, no IR camera visible emissions were detected from Tank 80-18. Tank 80-18 contained standard benzene, did not have rim or eyebrow vents, capacity 80,000 barrels, IFR with mechanical shoe, secondary wiper, constructed 1979.
10-Oct	Tank 60-1						PhoCheck data loggers off, IR camera visible emissions were detected in HSM only from Tank 60-1. Wastewater tank, capacity 60,000 barrels, IFR with liquid mounted, single log seal, constructed 1992, no video recorded.
10-Oct	Tank 60-3	MOV_0424 Tank 60-3 (15:13)					PhoCheck data loggers off, IR camera visible emissions were detected in HSM and auto from Tank 60-3 (three vents). Tank 60-3 is insulated, contained fuel oil blend stock, capacity 60,000 barrels, constructed 1992, fixed roof, vapor pressure 0.2 psi @ 130F.
10-Oct	Truck Loading Rack and nearby Pipe Rack		15:26 - 15:28	x	x		Elevated PID data, suspected leak in pipe rack area, did not identify the specific leak location.
10-Oct	Downwind from Tanks 80-1, 80-2 and 80-3		15:32 - 15:41	x	x		Winds southerly to southeasterly at 15:26.
10-Oct	Tank 80-1						No IR camera visible emissions were detected from Tank 80-1. Tank 80-1 contained Yubase 4 Plus, had smaller rim or eyebrow vents, had black sooty streaks at the top, capacity 80,000 barrels, IFR with mechanical shoe, constructed 1977.
10-Oct	Tank 80-2	MOV_0426 Tank 80-2 (15:39)					IR camera visible emissions were detected in HSM and auto from Tank 80-2 (three vents). Tank 80-2 contained ethanol 190 -192.5 proof, capacity 80,000 barrels, constructed 1976, IFR with mechanical shoe and secondary wiper, external inspection 8/2012, internal inspection 8/2010, vapor pressure 1.48 psi @ 80F.
10-Oct	Tank 80-3						No IR camera visible emissions were detected from Tank 80-3.Tank 80-3 contained BA 15 MEHQ, has smaller rim or eyebrow vents, had black sooty streaks at the top, capacity 80,000 barrels, IFR with mechanical shoe, secondary wiper, constructed 1977.
10-Oct	Downwind from Tanks 80-4, 80-5 and 80-6		15:44 - 15:52	x	x		
10-Oct	Tank 80-4						No IR camera visible emissions were detected from Tank 80-4 (Yubase 6), capacity 80,000 barrels, IFR, double wiper seal constructed in 1977 and had black sooty streaks near top of tank.

10-Oct	Tank 80-5	MOV_0427 Tank 80-5 (15:47)					No IR camera visible emissions were detected from Tank 80-5 (Tank Clean and Gas Free). MOV_0427 @ 15:47 Tank 80-5, example of tank with no IR camera visible emissions.
10-Oct	Tank 80-6						Tank 80-6 was out of service (no IR camera imaging).
10-Oct	Downwind from Tanks 80-7, 80-8 and 80-9		15:77 - 16:09	x	x		
10-Oct	Tank 80-7	MOV_0431 Tank 80-7 (16:06)					IR camera visible emissions were detected in HSM and auto from Tank 80-7 (two vents). Tank 80-7 contained py gas or pyrolysis gasoline, capacity 80,000 barrels, constructed 1977, IFR double wiper seal, external inspection 8/2012, internal inspection 2/2010, vapor pressure 3.6 psi @ 80F.
10-Oct	Tank 80-8						Tank 80-8 was out of service (no IR camera imaging).
10-Oct	Tank 80-9	MOV_0430 Tank 80-9 (16:00)				IR_0429 Tank 80-9 (15:58)	IR camera visible emissions were detected in HSM and auto from Tank 80-9 (three vents). Tank 80-9 contained No. 6 Fuel Oil, capacity 80,000 barrels, constructed 1977, fixed roof, vapor pressure 0.32 psi @ 130F.
11-Oct	Arrival at ITC Security, proceeded to Safety Building		8:20 -9:07				Winds 1.8 to 4.0 m/s, 120 degrees at 9:20.
11-Oct	Upwind from Tanks 80-13, 80-14 and 80-15		9:28:40 - 9:31:25				Upwind contribution was noted at 60 ppb VOC as isobutylene at 9:23.
11-Oct	Downwind from Tanks 80-13, 80-14 and 80-15		9:32:40 - 9:40:30	x	x		
11-Oct	Tank 80-13	MOV_0432 Tank 80-13 (9:35)					Tank 80-13 was being drawn down, truck loading, starting at 9:25. IR camera visible emissions were detected in HSM only slightly from Tank 80-13. Tank 80-13 contained xylene/mixed xylenes, IFR with mechanical shoe and secondary wiper, capacity 80,000 barrels, constructed 1978.
11-Oct	Tank 80-14						Tank 80-14 was out of service (no IR camera imaging).
11-Oct	Tank 80-15						IR camera visible emissions were detected in HSM only (two vents) from Tank 80-15 (no video recorded). Tank 80-15 contained pygas, IFR with mechanical shoe and secondary wiper, capacity 80,000 barrels, constructed 1978.
11-Oct	Downwind from Tanks 80-10, 80-11 and 80-12		9:41:30 - 9:53 and 10:26:30 - 10:48	x	x		
11-Oct	Tank 80-10						IR camera visible emissions were detected in HSM (barely visible in auto) from Tank 80-10 (one vent), no video recorded. Tank 80-10 contained pygas, tank capacity 80,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 1977. Tank 80-10 was static, 74F at a level of 30 ft, 3/4 in. The lower portion of the top panel of the outside tank wall along the south side of Tank 80-10 was bowed outward at the weld.
11-Oct	Tank 80-11						No IR camera visible emissions were detected from Tanks 80-11 (Basestock), capacity 80,000 barrels, constructed 1977, fixed roof.
11-Oct	Tank 80-12	MOV_0433 Tank 80-12 (9:44) and MOV_0434 Tank 80-12 (9:47)					IR camera visible emissions were detected in HSM and auto from Tank 80-12 (three vents). Tank 80-12 contained fuel oil #6, capacity 80,000 barrels, constructed 1977, fixed roof, vapor pressure 0.2 psi @ 130F. MOV_0434 @ 9:47 imaged for gas-sky background temperature comparison. Tank 80-12 was static, 118F at a level of 27 ft, 5 in. ITC contractor had to return to Safety Building. Upon return at 10:33 he imaged Tank 80-12, EPA did not record as the images were similar to MOV_0433 @ 9:44 and MOV_0434 @ 9:47.
11-Oct	Upwind from Tanks 80-28, 80-29 and 80-30		11:04 - 11:06:15	x	x		
11-Oct	Downwind from Tanks 80-28, 80-29 and 80-30		11:08:15 - 11:17:30	x	x		
11-Oct	Tank 80-28						No IR camera visible emissions were detected from Tank 80-28. Tank 80-28 contained toluene-nitration grade, capacity 80,000 barrels, IFR with double wiper, constructed 1991. Tank was static with a level at 21 ft 5 and 15/16 in at 77.1 degrees F.
11-Oct	Tank 80-29						No IR camera visible emissions were detected from Tank 80-29 (Tank Clean and Gas Free).
11-Oct	Tank 80-30						No IR camera visible emissions were detected from Tank 80-30. Tank 80-30 contained acetone, capacity 80,000 barrels, IFR with double wiper, constructed 1991.
11-Oct	Downwind from Tanks 80-25, 80-26 and 80-27		11:20 - 11:45	x	x		
11-Oct	Tank 80-25	MOV_0435 Tank 80-25 (11:21) and MOV_0436 Tank 80-25 (11:34)					IR camera visible emissions were detected in HSM and auto from Tank 80-25. Tank 80-25 contained methanol, capacity 80,000 barrels, constructed 1991, IFR with mechanical shoe and secondary wiper, vapor pressure 2.75 psi @ 80F. MOV_0435 @ 11:21 imaged for gas-sky background temperature comparison. Tank 80-25 was static, 76F at a level of 25 ft, 3 and 10/16 in. Last external inspection was 10/2012 and last internal inspections were 3/2012 (API) and 5/2012 (seal).
11-Oct	Tank 80-26						No IR camera visible emissions were detected from Tank 80-26. Tank 80-26 contained standard benzene, capacity 80,000 barrels, IFR with double wiper, constructed 1991. Tank 80-26 had a 43 ft 9 in level at 86F.

11-Oct	Tank 80-27	MOV_0437 Tank 80-27 (11:39) and MOV_0438 Tank 80-27 (11:42)					IR camera visible emissions were detected in HSM only (one vent, barely visible) from Tank 80-27. Tank 80-27 contained methanol, capacity 80,000 barrels, constructed 1991, IFR with double wiper. MOV_0438 @ 11:42 shows Tank 80-25 in background with Tank 80-27 in foreground for comparison. Tank 80-27 was static, 76.7F at a level of 35 ft, 9 and 11/16 in.
11-Oct	Upwind from Tanks 80-31, 80-32, 80-33 and 100-44.		13:16:30 - 13:19	x	x		
11-Oct	Downwind from Tanks 80-31, 80-32, 80-33 and 100-44		13:21:45 - 13:33:45	x	x		Winds now 5 m/s gusting to 6 m/s, at 100 degrees.
11-Oct	Tank 80-31						No IR camera visible emissions were detected from Tank 80-31. Tank 80-31 contained toluene-nitration grade, capacity 80,000 barrels, IFR with double wiper, constructed 1992. Tank had a level at 9 ft 1 and 1/2 in at 75 degrees F.
11-Oct	Tank 80-32						No IR camera visible emissions were detected from Tank 80-32. Tank 80-32 contained standard benzene, capacity 80,000 barrels, IFR with double wiper, constructed 1992. Tank had a level at 12 ft 5 and 1/2 in at 76 degrees F.
11-Oct	Tank 80-33						No IR camera visible emissions were detected from Tank 80-33. Tank 80-33 contained standard benzene, capacity 80,000 barrels, IFR with double wiper, constructed 1992. Tank had a level at 5 ft 4 and 3/4 in at 78 degrees F.
11-Oct	Tank 100-44						No IR camera visible emissions were detected from Tank 100-44. Tank 100-44 contained XHVI-8 Base Oil, capacity 100,000 barrels, fixed roof, constructed 2010.
11-Oct	Downwind from Tanks 100-45, 100-52 and 100-53		13:35 - 13:41	x	x		winds 4 m/s at 13:44
11-Oct	Tank 100-45						No IR camera visible emissions were detected from Tank 100-45. Tank 100-45 contained XHVI-4 Base Oil, capacity 100,000 barrels, fixed roof, constructed 2011.
11-Oct	Tank 100-52						No IR camera visible emissions were detected from Tank 100-52. Tank 100-52 contained Star 5, capacity 100,000 barrels, fixed roof, constructed 2012.
11-Oct	Tank 100-53						No IR camera visible emissions were detected from Tank 100-53. Tank 100-53 contained XHVI-4 Base Oil, capacity 100,000 barrels, fixed roof, constructed 2012.
11-Oct	Upwind from Tank 100-51		13:55 - 13:57:30	x	x		
11-Oct	Downwind from Tank 100-51		13:59 - 14:00	x	x		No IR camera visible emissions were detected from Tank 100-51. Tank 100-51 contained pygas, tank capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2011. Tank 100-51 was at a level of 56 ft, 3 in.
11-Oct	Downwind from Tank 100-50		14:00 - 14:04	x	x		No IR camera visible emissions were detected from Tank 100-50. Tank 100-50 contained reformate, tank capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2011. Tank 100-50 was at a level of 41 ft, 4 and 5/16 in, temperature 79.2F.
11-Oct	Downwind from Tank 100-49		14:06:45 - 14:07	x	x		No IR camera visible emissions were detected from Tank 100-49. Tank 100-49 contained methanol, tank capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2011. Tank 100-49 was at a level of 26 ft, 10 and 12/16 in, temperature 76.2F.
11-Oct	Upwind from Tanks 100-38 and 100-39		14:21:30 - 14:22:45	x	x		Skipped Tanks 100-46, 100-47 and 100-48, all base oil.
11-Oct	Downwind from Tanks 100-38 and 100-39		14:24 - 14:28:30	x	x		
11-Oct	Tank 100-38						No IR camera visible emissions were detected from Tank 100-38. Tank 100-38 contained methanol, tank capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2008. Tank 100-38 was at a level of 6 ft, 11 and 9/16 in, temperature 86.9F.
11-Oct	Tank 100-39						No IR camera visible emissions were detected from Tank 100-39. Tank 100-39 contained xylene/mixed xylenes, tank capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2008. Tank 100-39 was at a level of 36 ft, 5 in, temperature 77.3F.
11-Oct	Downwind from Tank 100-37 and 100-40		14:29 - 14:39	x	x		
11-Oct	Tank 100-37						No IR camera visible emissions were detected from Tank 100-37. Tank 100-37 contained xylene/mixed xylenes, tank capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2007. Tank 100-37 was at a level of 52 ft, 9 and 3/16 in, temperature 78F.
11-Oct	Tank 100-40						No IR camera visible emissions were detected from Tank 100-40. Tank 100-40 contained pygas, tank capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2008. Tank 100-40 was at a level of 25 ft, 10 and 4/16 in, temperature 76.3F.
11-Oct	Area around Tanks 100-36, 100-37, 100-40 and 100-41	MOV_0439 Tanks 100-36, 100-37, 100-40 and 100-41 (14:37)					MOV_0439 @ 14:37 is a visible light video, panning the noted tanks.
11-Oct	Downwind from Tanks 100-34, 100-36 and 100-41		14:40:45 - 14:47:30	x	x		
11-Oct	Tank 100-34						No IR camera visible emissions were detected from Tank 100-34. Tank 100-34 contained xylene/mixed xylenes, tank capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2007. Tank 100-34 was at a level of 9 ft, 4 and 1/16 in, temperature 75.3F.

11-Oct	Tank 100-36						No IR camera visible emissions were detected from Tank 100-36. Tank 100-36 contained methanol, tank capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2007. Tank 100-36 was at a level of 7 ft, 11 and 9/16 in, temperature 75F.
11-Oct	Tank 100-41						No IR camera visible emissions were detected from Tank 100-41. Tank 100-41 contained ethyl-tert-butyl ether (ETBE), tank capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2009. Tank 100-36 was at a level of 24 ft, 1/2 in, temperature 76F.
11-Oct	Downwind from Tanks 100-33, 100-35 and 100-42		14:48:30 - 15:00	x	x		
11-Oct	Tank 100-33						No IR camera visible emissions were detected from Tank 100-33. Tank 100-33 contained naphtha, tank capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2007. Tank 100-33 was being drawn down at a rate of 0.8 ft per hr, with a current level of 43 ft, 6 and 5/16 in, temperature 77.5F.
11-Oct	Tank 100-35						No IR camera visible emissions were detected from Tank 100-35. Tank 100-35 contained methanol, tank capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2007. Tank 100-35 was at a level of 28 ft, 2 and 13/16 in, temperature 82.6F.
11-Oct	Tank 100-42	MOV_0440 Tank 100-42 (14:54)					No IR camera visible emissions were detected from Tank 100-42. Tank 100-42 contained ETBE, tank capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2009. Tank 100-42 was at a level of 19 ft, 3 and 10/16 in, temperature 75.9F. MOV_0440 @ 14:54 is an example video of a tank with no detected IR camera visible emissions.
11-Oct	Downwind from Tanks 100-32 and 100-43		15:00:40 - 15:05:30	x	x		
11-Oct	Tank 100-32						No IR camera visible emissions were detected from Tank 100-32. Tank 100-32 contained xylene/mixed xylenes, tank capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2007. Tank 100-32 was at a level of 13 ft, 8 and 7/16 in, temperature 74.9F.
11-Oct	Tank 100-43						No IR camera visible emissions were detected from Tank 100-43. Tank 100-43 contained ETBE, tank capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2009. Tank 100-43 was at a level of 13 ft, 8 and 7/16 in, temperature 74.9F.
11-Oct	Upwind from Tank 36-3		15:20 - 15:21	x	x		
11-Oct	Downwind from Tank 36-3		15:23:30 - 15:24:30	x	x		No IR camera visible emissions were detected from Tank 36-3. Tank 36-3 contained fuel oil blend stock, capacity 36,000 barrels, fixed roof, constructed 1982. Tank 36-3 was at a level of 45 ft, 2 and 2/16 in, temperature 87.5F.
11-Oct	Downwind from Tanks 36-2 and 36-5		15:25:30 - 15:38	x	x		
11-Oct	Tank 36-2						IR camera visible emissions were detected in HSM only from one vent on Tank 36-2 (no video recorded). Tank 36-2 contained naphtha, capacity 36,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 1982. Tank 36-2 has roof vents, and Cary Secrest and I climbed this tank. A Tank 36-2 roof vent was monitored with the PIDs, which spiked up to around 2 ppm VOC as isobutylene. Tank 36-2 was at a level of 15 ft, 3 in, temperature 74F.
11-Oct	Tank 36-5						No IR camera visible emissions were detected from Tank 36-5. Tank 36-5 contained Solvent 100 Flint Hills), capacity 36,000 barrels, IFR with mechanical shoe seal, constructed 1982. Tank 36-5 was at a level of 37 ft, 2 in, temperature 78F.
11-Oct	Downwind from Tanks 36-1 and 36-4		15:38:45 - 15:42:30	x	x		
11-Oct	Tank 36-1						No IR camera visible emissions were detected from Tank 36-1. Tank 36-1 contained Hexane-S, capacity 36,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 1982. Tank 36-1 was at a level of 41 ft, 1 in.
11-Oct	Tank 36-4						No IR camera visible emissions were detected from Tank 36-4. Tank 36-4 contained fuel oil blend stock, capacity 36,000 barrels, fixed roof, constructed 1982. Tank 36-4 was at a level of 0 ft, 6 in, temperature 82.9F.
12-Oct	Arrive at Security 8:30 am						Wind 1.5 to 2.0 m/s, steady, from due east at 9:00.
12-Oct	Upwind from Tanks 100-8, 100-10, 100-19 and 100-20		9:16:50 - 9:22	x	x		
12-Oct	Downwind from Tanks 100-8, 100-10, 100-19 and 100-20		9:22:15 - 9:33	x	x		
12-Oct	Tank 100-8						No IR camera visible emissions were detected from Tank 100-8. Tank 100-8 contained standard benzene, capacity 100,000 barrels, IFR with double wiper seal, constructed 1998. Tank 100-8 was at a level of 17 ft, 3 and 14/16 in, temperature 78.6F.

12-Oct	Tank 100-10					No IR camera visible emissions were detected from Tank 100-10. Tank 100-10 contained standard benzene, capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 1998. Tank 100-10 was at a level of 17 ft, 7 and 1/4 in, temperature 77.7F.
12-Oct	Tank 100-19					No IR camera visible emissions were detected from Tank 100-19. Tank 100-19 contained methanol, was being drawn down, capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2003. Tank 100-19 was at a level of 24 ft, 4 and 15/16 in, temperature 78.9F.
12-Oct	Tank 100-20					No IR camera visible emissions were detected from Tank 100-20. Tank 100-20 contained methanol, capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2003. Tank 100-20 was at a level of 28 ft, 11 and 7/16 in, temperature 78.5F.
12-Oct	Downwind from Tanks 100-7, 100-9, 100-16 and 100-18		9:35 - 9:45:30	x	x	
12-Oct	Tank 100-7					No IR camera visible emissions were detected from Tank 100-7. Tank 100-7 contained mono-ethylene glycol, capacity 100,000 barrels, fixed roof, constructed 1998. Tank 100-7 was at a level of 9 ft, 2 and 10/16 in.
12-Oct	Tank 100-9					No IR camera visible emissions were detected from Tank 100-9. Tank 100-9 contained standard benzene, capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 1998. Tank 100-9 was at a level of 6 ft, 7 in, temperature 76.6F.
12-Oct	Tank 100-16					No IR camera visible emissions were detected from Tank 100-16. Tank 100-16 was empty (clean and gas free).
12-Oct	Tank 100-18					No IR camera visible emissions were detected from Tank 100-18. Tank 100-18 contained methanol, capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2003. Tank 100-18 was at a level of 47 ft, 10 and 1/16 in, temperature 83.7F.
12-Oct	Downwind from Tanks 100-3, 100-6, 100-15 and 100-17		9:46 - 10:01:30	x	x	
12-Oct	Tank 100-3					No IR camera visible emissions were detected from Tank 100-3. Tank 100-3 contained methanol, capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 1997. Tank 100-3 was at a level of 44 ft, 3 and 6/16 in, temperature 80.6F.
12-Oct	Tank 100-6					No IR camera visible emissions were detected from Tank 100-6. Tank 100-6 contained methanol, capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 1997. Tank 100-6 was being drawn down for land traffic, at a current level of 28 ft, 5 and 3/16 in, temperature 78.2F.
12-Oct	Tank 100-15					No IR camera visible emissions were detected from Tank 100-15. Tank 100-15 contained pygas, capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2001. Tank 100-15 was at a level of 15 ft, 11 and 12/16 in, temperature 77.4F.
12-Oct	Tank 100-17					IR camera visible emissions were detected momentarily in HSM only from Tank 100-17 (no video recorded). Tank 100-17 contained methanol, capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2001. Tank 100-17 was at a level of 8 ft, 7 and 11/16 in, temperature 77.5F.
12-Oct	Downwind from Tanks 100-2, 100-5, 100-12 and 100-14		10:02:40 - 10:11:30	x	x	
12-Oct	Tank 100-2					No IR camera visible emissions were detected from Tank 100-2. Tank 100-2 contained methanol, capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 1997. Tank 100-2 was at a level of 21 ft, 1 and 10/16 in, temperature 76.8F.
12-Oct	Tank 100-5					No IR camera visible emissions were detected from Tank 100-5. Tank 100-5 contained methanol, capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 1997. Tank 100-5 was at a level of 28 ft, 6 and 11/16 in, temperature 78.4F.
12-Oct	Tank 100-12					No IR camera visible emissions were detected from Tank 100-12. Tank 100-12 contained methanol, capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2001. Tank 100-12 was at a level of 43 ft, 1 and 10/16 in, temperature 81.9F.
12-Oct	Tank 100-14					No IR camera visible emissions were detected from Tank 100-14. Tank 100-14 contained methanol, capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2000. Tank 100-14 was at a level of 8 ft, 4 and 9/16 in, temperature 75.8F.
12-Oct	Downwind from Tanks 100-1, 100-4, 100-11 and 100-13		10:15:30 - 10:38	x	x	

12-Oct	Tank 100-1						IR camera visible emissions were detected in HSM only from Tank 100-1 (no video recorded). Tank 100-1 contained methanol, capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 1997. Tank 100-1 was at a level of 36 ft, 9 and 14/16 in, temperature 78.4F.
12-Oct	Tank 100-4						No IR camera visible emissions were detected from Tank 100-4. Tank 100-4 contained standard benzene, capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 1997. Tank 100-4 was at a level of 18 ft, 8 and 2/16 in, temperature 78.3F.
12-Oct	Tank 100-11						No IR camera visible emissions were detected from Tank 100-11. Tank 100-11 contained methanol, capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2000. Tank 100-11 was being drawn down for land traffic, at a current level of 21 ft, 3 and 9/16 in, temperature 77.3F.
12-Oct	Tank 100-13						No IR camera visible emissions were detected from Tank 100-13. Tank 100-13 contained methanol, capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2001. Tank 100-13 was at a level of 34 ft, 5 and 1/2 in, temperature 77.9F.
12-Oct	Downwind from Vopak Wastewater		10:13:30 - 10:39	x	x		No IR camera visible emissions noted, PID readings around 100 ppb VOC as isobutylene.
12-Oct	Barge Ship Activity Flares near Tanks 100-31 and 30-10	MOV_0441 Flares (10:48)					Seven flares, third and fourth from left, facing towards the ship channel, had visible flames. IR camera survey detected no trailing VOC plume tail.
12-Oct	Downwind from Tanks 35-15, 100-21, 100-24, 100-27 and 100-30		10:51:30 - 11:15	x	x		
12-Oct	Tank 35-15						No IR camera visible emissions were detected from Tank 35-15. Tank 35-15 contained C-MMA, capacity 35,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2008. Tank 35-15 was at a level of 22 ft, 11 and 1/16 in, temperature 76.1F.
12-Oct	Tank 100-21						No IR camera visible emissions were detected from Tank 100-21. Tank 100-21 contained toluene-nitration grade, capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2004. Tank had a level at 11 ft 0 and 12/16 in at 75.7 degrees F.
12-Oct	Tank 100-24						No IR camera visible emissions were detected from Tank 100-24. Tank 100-24 contained toluene-nitration grade, capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2005. Tank had a level at 1 ft 6 and 3/4 in.
12-Oct	Tank 100-27						No IR camera visible emissions were detected from Tank 100-27. Tank 100-27 contained methanol, capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2006. Tank 100-27 was at a level of 46 ft, 11 and 9/16 in, temperature 80.3F.
12-Oct	Tank 100-30						No IR camera visible emissions were detected from Tank 100-30. Tank 100-30 contained naphtha, capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2006. Tank 100-30 was at a level of 8 ft, 8 and 15/16 in, temperature 75.6F.
12-Oct	Downwind from Tanks 100-22, 100-25 and 100-28		11:00 - 11:15	x	x		Winds shifted to southerly at 1 to 3 m/s, noted at 11:15.
12-Oct	Tank 100-22						No IR camera visible emissions were detected from Tank 100-22. Tank 100-22 contained benzene concentrate, capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2004. Tank 100-22 was at a level of 14 ft, 6 and 7/16 in.
12-Oct	Tank 100-25						No IR camera visible emissions were detected from Tank 100-25. Tank 100-25 contained EHC 45 (base oil), capacity 100,000 barrels, fixed roof, constructed 2005. Tank 100-25 was at a level of 18 ft, 5 and 1/4 in, temperature 81.5F.
12-Oct	Tank 100-28						No IR camera visible emissions were detected from Tank 100-28. Tank 100-28 was empty (clean and gas free).
12-Oct	Upwind from Tank 100-23		11:15 - 11:16	x	x		
12-Oct	Downwind from Tank 100-23		11:17:30 - 11:21:30	x	x		No IR camera visible emissions were detected from Tank 100-23. Tank 100-23 contained xylene, capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2004. Tank 100-23 was at a level of 8 ft, 11 in, temperature 78.2F.
12-Oct	Downwind from Tanks 100-25 and 100-26		11:23:30 - 11:28:30	x	x		
12-Oct	Tank 100-26						No IR camera visible emissions were detected from Tank 100-26. Tank 100-26 contained EHC 45 (base oil), capacity 100,000 barrels, fixed roof, constructed 2005. Tank 100-26 was insulated and had a level of 40 ft, 4 and 10/16 in.
12-Oct	Downwind from Tanks 100-28 and 100-29		11:29:45 - 11:33	x	x		

12-Oct	Tank 100-29						No IR camera visible emissions were detected from Tank 100-29. Tank 100-29 contained toluene, capacity 100,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 2006. Tank had a level at 18 ft 10 and 13/16 in, temperature 77.1F.
12-Oct	Downwind from Tanks 30-8 and 30-9		11:38 - 11:39:30	x	x		Skipped Tanks 30-10 and 30-11, both Yubase 4 (base oil).
12-Oct	Tanks 30-8 and 30-9						No IR camera visible emissions were detected from Tanks 30-8 or 30-9. Both tanks contained phenol, with a capacity of 30,000 barrels, fixed roofs, constructed 2005. These tanks were heated (30-8 at 126.5 F and 30-9 at 129.5 F) and had piping that could be vapor recovery or to provide a nitrogen blanket. No vents were observed. IR camera scans of the piping revealed no IR camera visible emissions.
12-Oct	In vehicle near Vopak/ITC fence line		11:40 - 11:52	x	x		Elevated PID readings while in vehicle near fence line, suspected to be caused by emissions from off-site (Vopak).
12-Oct	Upwind from Tanks 160-1, 160-2, 160-3, 160-4, 160-5 and 160-6		13:48 - 13:50:45	x	x		Winds were 3 m/s from 130 degrees at 13:33.
12-Oct	Downwind from Tanks 160-1 and 160-4		13:52:30 - 14:00	x	x		
12-Oct	On top of Tank 160-1		14:00 - 14:14	x	x		
12-Oct	Downwind from Tanks 160-1, 160-2, 160-3, 160-4, 160-5 and 160-6		14:14 - 14:20:50	x	x		
12-Oct	Upwind from Tanks 160-1, 160-2 and 160-3		14:20:50 - 14:27	x	x		
12-Oct	Tank 160-1	MOV_0442 Tank 160-1 (14:02)					IR camera visible emissions were detected in HSM and auto from the Tank 160-1 roof vent. Tank 160-1 contained fuel oil blend stock, capacity 160,000 barrels, constructed 1980, fixed roof, vapor pressure 0.18 psi @ 109 F. Tank level was 19 ft, 6 and 1/2 in, temperature 108.9 F. Plume source on lower right in MOV_0442 @ 14:01 is boiler stacks at an off-site facility.
12-Oct	Tank 160-2	MOV_0443 Tank 160-2 and 160-3 (14:06)					IR camera visible emissions were detected in HSM and auto from the Tank 160-2 roof vent (goose neck). Tank 160-2 contained fuel oil blend stock, capacity 160,000 barrels, constructed 1980, fixed roof, vapor pressure 0.06 psi @ 130 F. Tank level was 10 ft, 3 and 11/16 in, temperature 121.1 F. Plume source on left in MOV_0443 @ 14:06 is Tank 160-3 roof vent (goose neck).
12-Oct	Tank 160-3						IR camera visible emissions were detected in HSM and auto from the Tank 160-3 roof vent (goose neck). Tank 160-3 contained fuel oil blend stock, capacity 160,000 barrels, constructed 1980, fixed roof, vapor pressure 0.16 psi @ 120 F. Tank level was 26 ft, 4 and 10/16 in, temperature 120.1 F. Plume source on right (center) in MOV_0443 @ 14:06 is Tank 160-2 roof vent (goose neck). IR camera visible emissions from Tank 160-3 were similar to those from Tank 160-2.
12-Oct	Tank 160-4						No IR camera visible emissions were detected from Tank 160-4. Tank 160-4 contained ethanol CDA, capacity 160,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 1980. Tank had a level at 42 ft 4 and 9/16 in, temperature 81.2F. The pump associated with Tank 160-4 was running, and ITC personnel indicated the tank was circulating, pumping contents back to the tank.
12-Oct	Tank 160-5						No IR camera visible emissions were detected from Tank 160-5. Tank 160-5 contained ethanol CDA, capacity 160,000 barrels, IFR with mechanical shoe and secondary wiper, constructed 1980.
12-Oct	Tank 160-6						No IR camera visible emissions were detected from Tank 160-6. Tank 160-6 contained ethanol CDA, capacity 160,000 barrels, IFR with mechanical shoe, constructed 1980. Tank had a level at 40 ft 3 and 12/16 in, temperature 79.4F.